PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference IH-160	FOR FURTHER ACTION	See Form PCT/IPEA/416		
International application No.	International filing date (day/month/year)	Priority date (day/month/year)		
PCT/JP2005/002351	16.02.2005	18.02.2004		
International Patent Classification (IPC) or nation	onal classification and IPC			
A61P	3/56, A61K31/4439, 33/10, A61P33/12, F	A61P33/02, A61P33/06, A61P33/14		
Applicant ISHIHARA SANGYO KAISHA, LTD.				
This report is the international prelin under Article 35 and transmitted to the		this International Preliminary Examining Authority		
This REPORT consists of a total of	7 sheets, inc	luding this cover sheet.		
3. This report is also accompanied by Al	NNEXES, comprising:			
a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:		
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
	Bureau only) a total of (indicate type and n	umber of electronic carrier(s))		
		, containing a sequence listing and/or tables		
related thereto, in computer Section 802 of the Administr		upplemental Box Relating to Sequence Listing (see		
4. This report contains indications relating	ng to the following items:			
Box No. I Basis of the	report			
Box No. II Priority				
Box No. III Non-establis	shment of opinion with regard to novelty, i	nventive step and industrial applicability		
Box No. IV Lack of unit	y of invention			
BOX 110. 1	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI Certain docu	Box No. VI Certain documents cited			
Box No. VII Certain defe	cts in the international application			
Box No. VIII Certain observations on the international application				
Date of submission of the demand	Date of completion	of this report		
Name and mailing address of the IPEA/JP	Authorized officer			
Facsimile No.	Telephone No.			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

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Вох	No. I	[Basis of the report		
1.		_	I to the language, this report is based on the internation der this item.	nal application in the language in which	it was filed, unless otherwise
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:				
		\sqcup	international search (Rule 12.3 and 23.1(b))		
		\sqcup	publication of the international application (Rule 12.4)		
		Ш	international preliminary examination (Rule 55.2 and/o	or 55.3)	
2.	2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):				
	\bowtie	the int	ternational application as originally filed/furnished		
	Ш	the de	escription:		
		pages	· .		as originally filed/furnished
		pages	*	received by this Authority on	
		pages	*	received by this Authority on	
		the cla	aims:		
		nos.			as originally filed/furnished
		nos.*		as amended (together with	any statement) under Article 19
		nos.*		received by this Authority on	
		nos.*		received by this Authority on	
		the dr	awings:		
		sheets	•		as originally filed/furnished
		sheets			_ ,
		sheets		received by this Authority on	
	П		nence listing and/or any related table(s) – see Suppleme		_
	\exists	_		ental Box Relating to Sequence Listing.	
3.	ш		mendments have resulted in the cancellation of:		
			the description, pages		
		H	the claims, nos.		
		님	the sequence listing (specify):		
		Ш	any table(s) related to sequence listing (specify):		
4.			report has been established as if (some of) the amenda have been considered to go beyond the disclosure as file		
		닏	the description, pages		
		\sqcup	the claims, nos.		
		\sqcup	the drawings, sheets/figs		
		\sqcup	the sequence listing (specify):		
			any table(s) related to sequence listing (specify):		
*	If ite	em 4 apj	plies, some or all of those sheets may be marked "supe	rseded."	

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Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			plicability		
-	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:				
	the entire international application				
	claims Nos. 21				
becaus	e:				
	the said international application, or the said claims Nos. 21 relate to the following subject matter which does not require an international preliminary examination (specify):				
	The scope o	f claim 21 includes methods	for		
	controlling pests	within the human body, whi	ch is to		
	say methods for t	he treatment of the human b	ody by		
	means of therapy	(refer to Article 34(4)(a)(i) of the		
PCT and Rule 67.1(iv) of the Regulations und			er the		
	PCT).				
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):				
	the claims or said claims Nos		are so inadequately supported		
	the claims, or said claims Nos. by the description that no meaningful	opinion could be formed.	_ are so madequatery supported		
\boxtimes	no international search report has been	n established for said claims Nos. 21			
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrat Instructions in that:				
	the written form	has not been furnished			
		does not comply with the standard			
	the computer readable form	has not been furnished			
		does not comply with the standard			
		nd/or amino acid sequence listing, if in computer readable for Annex C-bis of the Administrative Instructions.	orm only, do not comply with the		
	See Supplemental Box for further deta	ils.			

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement				
	Novelty ((N)	Claims	1-20	YES
			Claims	_	_ NO
	Inventive	e step (IS)	Claims		YES
			Claims	1-20	_ NO
	Industria	l applicability (IA)	Claims	1-20	_ YES
			Claims		_ NO

2. Citations and explanations (Rule 70.7)

The opinion expressed in the present report is based on the disclosures in each of the following documents, which are cited in the international search report.

- Document 1: WO 03/024222 A1 (E. I. Du Pont de Nemours and Co.)
- Document 2: WO 03/015518 A1 (E. I. Du Pont de Nemours and Co.)
- Document 3: WO 03/015519 A1 (E. I. Du Pont De Nemours and Co.)
- Document 4: JP 2003-528070 A (E. I. Du Pont De Nemours and Co.)
- Document 5: JP 11-240857 A (Nihon Nohyaku Co., Ltd.)
- Document 6: JP 2003-176258 A (Ishihara Sangyo Kaisha, Ltd.)

Claims 1 to 20

Documents 1 to 4 (claims, examples) disclose anthranilamide derivatives that exhibit a pest controlling action, and also disclose methods for the production thereof. A comparison of the invention set forth in claim 1 and the inventions disclosed in

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

documents 1 to 4, however, revealed that claim 1 stipulates that the terminal substituent group (A) be an alkyl group that has been substituted with a substitutable C_{3-4} cycloalkyl group, whereas documents 1 to 4 stipulate that the groups at the corresponding sites be substituted with a cycloalkyl group or an alkyl group without mentioning substituent groups like those in the former invention; likewise, this comparison also revealed that the present application presents specific applications for the derivatives in question (e.g., the prevention and/or treatment of zoonoses caused by parasites), whereas documents 1 to 4 do not mention the applications in question. Such being the case, the abovementioned inventions are different.

However, document 5 discloses phthalic acid diamide derivatives that have chemical structures similar to the structures of the compounds disclosed in documents 1 to 4, wherein the alkyl group in question has been substituted with a C_{3-4} cycloalkyl group (for example, refer to composition "No. 860"), and document 5 goes on to disclose similar applications for said derivatives. Such being the case, it cannot be said to require significant creative abilities for a person skilled in the art to conceive of attempting to substitute the substituent groups disclosed in document 5 for the cycloalkyl group or alkyl group in the compounds disclosed in documents 1 to 4 with the expectation of improving the pest controlling action thereof. Likewise, it cannot be said to require significant creative abilities for a person skilled in the art to conceive of combining the cycloalkyl groups or alkyl groups disclosed in documents 1 to 4 in an attempt to form alkyl groups

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that have been substituted with a substitutable C_{3-4} cycloalkyl group.

With regards to the specific applications of the derivatives, techniques wherein pest controllers are applied in order to prevent and/or treat zoonoses caused by parasites are well known to a person skilled in the art, as disclosed in document 6; therefore, it cannot be said to be especially difficult for a person skilled in the art to conceive of attempting to use the abovementioned compounds in such an application.

Consequently, the inventions set forth in claims 1 to 20 do not involve an inventive step in the light of the disclosures in documents 1 to 6.

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Box	x No. VI Certain documents cited			
1.	Certain published documents (Rule 70.10)			
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
	WO 2004/067528 A1	12.08.2004	21.01.2004	28.01.2003
	[E, Y]			
2.	Non-written disclosures (Rule 70.9)		Dat	a of whitton disalogues
	Kind of non-written disclosure	Date of non-written di (day/month/yea	sclosure referring	e of written disclosure g to non-written disclosure (day/month/year)